

AURORA LOGGER

RESIDENTIAL
COMMERCIAL
MAX

GENERAL SPECIFICATIONS

The high-performance Aurora Logger comes in three performance levels to fit your budget and functionality; residential, commercial, and maximum. All versions collect data from Power-one inverters, logs it on site, and then acts as an internet gateway to send the data to be stored on Power-One's unified plant management platform, Aurora Vision.

The Aurora Logger Max provides both customer data management and inverter command & control for commercial & utility PV system operations.

The residential version is available for those that only need to monitor single phase inverters while the commercial version is suitable for monitoring all string inverters and an optional weather station.



Features

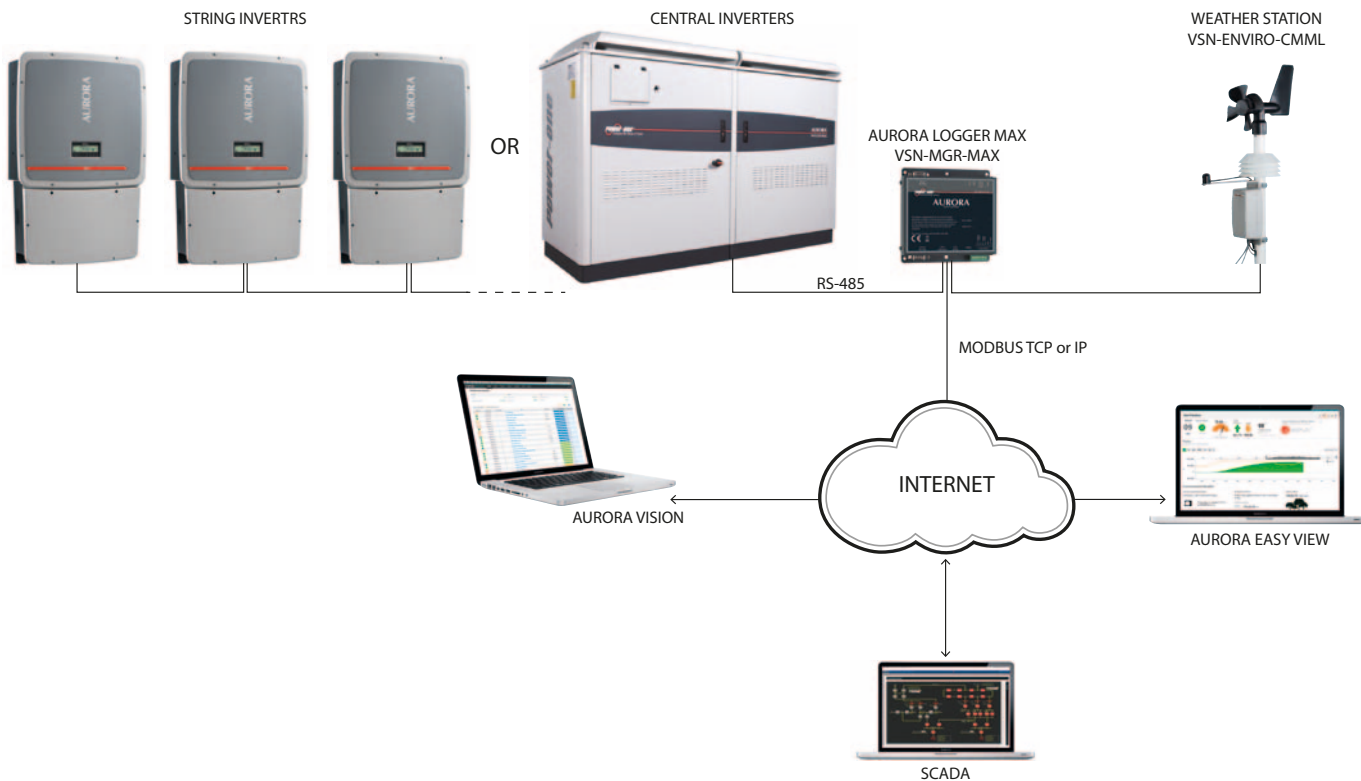
All Aurora Logger models include:

- Data management system with serial and Ethernet ports to provide data logging
- 12 VDC, 1A power supply
- Quick installation and fast provisioning (Including DHCP client for Auto IP assignment)
- Collecting data and uploading information over the Internet in near real-time to the Aurora Vision platform
- Reliable, secure transmission of operational data to Aurora Vision
- Remote configuration capabilities facilitating upgrades over the Internet

Aurora Logger Max additional functionality:

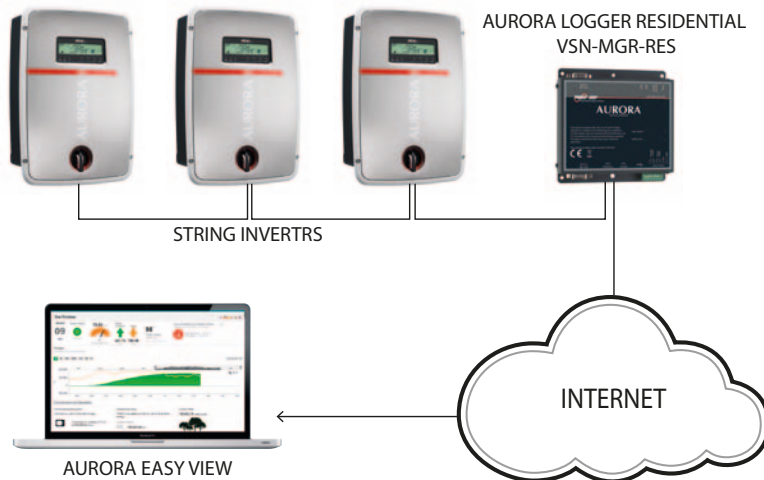
- Modbus TCP server using Sunspec compliant maps for easy SCADA system interface, data collection, and inverter command execution
- Support for all Power-One inverters, meters, combiners, and weather stations

COMMERCIAL AND UTILITY APPLICATION WITH AURORA LOGGER MAX






Block Diagram

APPLICATION WITH AURORA LOGGER RESIDENTIAL



PARAMETER	AURORA LOGGER
Communication Interfaces	
Serial Port Interface	(2) RS-485 + (2) RS-232
Maximum Devices per Serial Port	Physical limitation of 32 (reduced by poll rate, inverter data set size, and logger type)
Fieldbus Cable	RS-485 Shielded twisted pair. Recommend Belden # 1120A cable or # 3106A for 3 conductors
Ethernet Port 0	Firewall protected Ethernet WAN port for internet connection
Ethernet Port 1	Local LAN with static IP address
Ethernet Connections	RJ-45 Ethernet 10/100 base-T (LAN/WAN)
Communication Protocols	
Plant Fieldbus Protocols	Aurora, Modbus RTU, SunSpec
LAN/WAN Protocols	HTTP, DHCP, SSL, SSH, XML
Data Logging Specifications	
Data Sampling Rate	High frequency data sampling - 1 minute average
Local Storage	Log data for 30 days based on 15-minute intervals. (Days logged reduced by intervals shorter than 15-minute)
Upgradeability	Field upgradable over the Internet or locally via USB memory stick
Power Supply	
DC Power Supply Input	100 - 240 VAC
DC Power Supply Output	12VDC, 1A
Environmental Parameters	
Ambient Temperature Range	0°C to 40°C
Environmental Protection Rating	IP20
Relative Humidity	<85% Non-condensing
Mechanical Parameters (per unit)	
Dimensions H x W x D	1" x 5.5" x 5.25" (.03m x .14m x .13m)
Weight	2 lbs (0.91kg)
Mounting System	Screws through flanges
Compliance	
Emission	FCC Part 15 Class B, CISPR 22, EN 55022 Conducted and Radiated Emission
Immunity	EN55024

LOGGER MODEL COMPARISON			
	RESIDENTIAL (VSN-MGR-RES-P1-XX)	COMMERCIAL (VSN-MGR-CMML-P1-XX)	MAX (VSN-MGR-MAX-XX)
Logging Real Time Power Values	15-minute intervals only	1 to 7 minute configurable intervals	1 to 7 minute configurable intervals
Modbus/TCP Server	No	No	YES
Inverter Control Commands	No	No	YES
Devices Supported	5 Power-One	10 Power-One	All Power-One devices
	Single phase (only) string inverters	String inverters	3rd party meters (Consult latest supported list)
		1 Weather station	

ACCESSORIES		
VSN-MGR-DIN	Din Rail Kit to mount logger on a din rail	
VSN-ENVIRO-ENTRY	Weather station with sensor: ambient, panel, global irradiance	
VSN-ENVIRO-CMML	Weather station with sensor: ambient, panel, global irradiance, plane of array irradiance, wind speed & direction	



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